



SAN BERNARDINO MICROWAVE SOCIETY, Incorporated

FOUNDED IN 1966

A NON-PROFIT AMATEUR TECHNICAL ORGANIZATION DEDICATED
TO THE ADVANCEMENT OF COMMUNICATIONS ABOVE 1000 MC.

W6IFE Newsletter

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The **4 January 2001** meeting of the SBMS will have Malcolm Levy inform us about PSK 31, the new narrowband digital mode along with a demonstration. The SBMS meets at the American Legion Hall 1024 Main Street (south of the 91 freeway) in Corona, CA at 1900 hours local time on the first Thursday of each month. Check out the SBMS web site at <http://www.ham-radio.com/sbms/>.

The Prez Sez-- I have been thinking back over the year, now that it's almost gone. When I was much younger we dreamed about Hal 9000 computers and moon bases and thought we would be so advanced by 2001. Actually, I think we are. I don't think in 1970 I would have been able to guess what kind of an electronic life I lead. Certainly having something like an FT 847 or a laptop like the one I'm typing on would have seemed too far. (Actually I am keyboarding, not typing; although I have a sound scheme that will mimic a typewriter.) Looking at the club, the same way, I am sure we could have never guessed how comparatively simple it would be to get on narrowband 10 GHz and how much microwave technology would have changed, among other things.

How did we get here and what made it possible? To me, what makes the difference in the long run is constant effort in building, operating and working together for common goals in the present. It is also that we take

advantage of opportunities for equipment and operating that gradually improve what we all do whenever the opportunity presents itself. Certain individual efforts to provide equipment or to demonstrate how things are done can and does have a great effect, but only if the rest of us take advantage of it and move with it. The cement that makes these building blocks into a structure is the network of friends and mutual effort we experience in the club and with other microwavers. Without a club that works together, those individual efforts would only be individual, and while important, not additive or synergistic.

To say it more simply: It has been a good year for friendship; working together, making neat stuff work, and operating. Each effort we make in the present is significant for the future for the hobby, the club and ourselves. I hope each of us can keep up the effort and that we have at least as good a year next year. Happy New Year and New Millennium. Doug K6JEY

Last meeting--- Jeff, KN6VR presented the tech talk on 1296 EME. 17 people were present.

Activity presented in the Dec, 2000 SBMS meeting-Dick, WB6DNX made wr42 to SMA adapters;

Jeff, KN6VR made some antenna measurements; Chuck, WA6EXV finished his 10 & 24 GHz dual band rig and is looking for contacts; Jerry, WA6VLF worked on his 1296 rig and made a few contacts; Ed, W6OYJ Worked with WA6VLF on 1296 rigs and built a filter to solve an interference problem; Kerry, N6IZW helped W6OYJ with filters and made a noise source from some Qualcomm parts; Chuck, N6EQ Hosted a meeting of the Western States Weak Signal Society, and worked on antennas; Mel, WA6JBD built a transverter TR sequencer, and MMIC amps, and picked up a commercial 10 GHz 4' dish with feed; Kurt, K6RRA made some progress on about 8 different projects; John, KJ6HZ built a helix antenna for phase 3d; Larry, K6HLH worked on a 3 watt 10 GHz amp; Bob, W6SYA worked with N6EQ on antennas and packaging a 10 GHz rig; Dick, K6HIJ repaired his spectrum analyzer; Dave, WA6CGR worked on his 1296 amplifiers and has 100 watts out for 4 watts in.; Chip, N6CA uploaded pictures of the new PV beacon to the website, and made the first W6 to Spain contact on .05 GHz

Thanks to Mel. WA6JBD for collecting notes while Bill was being down with the flu.

Scheduling

1 February 2001 TBD

1 March TBD

5 April TBD

Wants and Gots for sale

KJ6HZ has a free 18" dish w/o mounting hardware John 714-761-0242

I am looking for parts and pieces and manual for a Systron -Donner spectrum analyzer model 809-2 RF plug in which goes into a 712-2 display. The main piece I need is the third converter board from the RF

drawer, but willing to talk about most anything. A copy of a manual would be very nice. Let me know, Doug K6JEY 562-424-3737

I have a couple items for sale. 1. Tentec 1208 6m/20m transvertor kit {partially built}. Ran out of steam when I bought the FT-847 and guess maybe some else could use it. \$80 US plus shipping. Cost new: kit \$95, assembled \$159. {Not in a hurry? I'll finish building it} 2. Mint condition Yaesu FRG-100 HF receiver [100 kHz - 30 MHz] all modes. Includes manual and wall power cube. No options. You can get FM module, ssb/cw filters, and a TCXO 2 ppm osc for it. Has CAT interface. \$300 US plus shipping, new \$579.95 I will accept money order or PayPal. Prices firm. 73, Ed PO Box 8672 Nikiski, Alaska 99635

Interesting Microwave stuff---

Here is a useful formula for calculating free-space one way path attenuation:

$$L = K + 20 \text{ LOG } (D) + 20 \text{ LOG } (F)$$

Where:

L= One Way Path Attenuation in Decibels (far field assumed).

F= Frequency in MHz

D= Distance in units specified below

K= 32.4 for Kilometers

K= 36.6 for Statute Miles

K= 37.8 for Nautical Miles

K= - 37.9 for Feet

73s from Ed, W6OYJ

73's Bill